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## VECTOR ENGINE WITH PRE-ACCUMULATION BUFFER AND METHOD THERFORE

## **Abstract of the Disclosure**

A method and apparatus for reducing latency in pipelined circuits that process dependent operations is presented. In order to reduce latency for dependent operations, a pre-accumulation register is included in an operation pipeline between a first operation unit and a second operation unit. The pre-accumulation register stores a first result produced by the first operation unit during a first operation. When the first operation unit completes a second operation to produce a second result, the first result stored in the pre-accumulation register is presented to the second operation unit along with the second result as input operands.